Mutation Research, 197 (1988) 337–338
Elsevier

Contents

Volume 197 (1988)

Research Papers

The influence of the proportion of carcinogens on the cost-effectiveness of short-term tests (MTR 04504)
by F.K. Ennever and H.S. Rosenkranz (U.S.A.) 1
Mutagenic DNA repair in *Escherichia coli*. XV. Mutation frequency decline of ochre suppressor mutations in *umuC* and *lexA* bacteria occurring between ultraviolet irradiation and delayed photoreversal (MTR 04506)
by B.A. Bridges and F. Sharif (Great Britain) 15
Characterization of the types of mutational events that spontaneously occur in a plasmid system (MTR 04478)
by J.-H. Chen and R.D. Porter (U.S.A.) 23
Modulation of the mutagenic effects of 2-amino-3-methylimidazo[4,5-*f*]quinoline (IQ) and 2-amino-3,4-dimethylimidazo[4,5-*f*]quinoline (MeIQ) in bacteria with rat-liver 9000 × *g* supernatant or monolayers of rat hepatocytes as an activation system (MTR 04483)
by J.A. Holme, G. Brunborg, J. Alexander, B. Trygg and C. Bjørnstad (Norway) 39
Evidence for uptake of 8-methoxypsoralen and 5-methoxypsoralen by cellular nuclei (MTR 04490)
by M. Sasaki, F. Meguro, E. Kumazawa, H. Fujita, H. Kakishima and T. Sakata (Japan) 51
Effects of excess thymidylate on thymidylate low-requiring strains of *Saccharomyces cerevisiae*: high mutagenicity and absence of DNA strand breaks (MTR 04497)
by E. Bender and M. Brendel (Federal Republic of Germany) 59
Interpretation of UV-survival curves of Aspergillus conidiospores (MTR 04498)
by C.J. Bos, P. Stam and J.H. Van der Veen (The Netherlands) 67
Spontaneous second-chromosome recessive lethals in a *Drosophila melanogaster* repair-deficient (*mei-9*^{a}) mutant (MTR 04503)
by E. Hasson and E.R. Muñoz (Argentina) 77
Chromosomal mutation in *Drosophila melanogaster* and *Drosophila simulans* (MTR 04519)
by Y. Inoue (Japan) 85
Measurement of DNA breakage in spermiogenic germ-cell stages of mice exposed to ethylene oxide, using an alkaline elution procedure (MTR 04471)
by G.A. Sega and E.E. Generoso (U.S.A.) 93
Effects of X-irradiation at different times during development on the yield of somatic mutations in melanocytes of the mouse (MTR 04477)
by D.A. Stephenson and A.G. Searle (Great Britain) 101
Evidence for a receptor-mediated endocytosis of Alu I in Chinese hamster ovary cells (MTR 04479)
by V. Vasudev and G. Obe (F.R.G., India) 109
Sister-chromatid exchange (SCE) elimination kinetics in BrdUrd-treated cells irradiated with visible light (MTR 04499)
by A. Maldonado, E.G. Pardo and C. Gutierrez (Spain) 117
Induction of chromosomal aberrations in active oxygen-generating systems. I. Effects of paraquat in Chinese hamster cells in culture (MTR 04493)
by T. Sofuni and M. Ishidate Jr. (Japan) 127
Induction of chromosomal aberrations in active oxygen-generating systems. II. A study with hydrogen peroxide-resistant cells in culture (MTR 04492)
by M. Sawada, T. Sofuni and M. Ishidate Jr. (Japan) 133
The induction of chromosome aberrations by restriction endonucleases that produce blunt-end or cohesive-end double-strand breaks (MTR 04489)
by R.A. Winegar and R.J. Preston (U.S.A.) 141
The asymmetric methylation of CG palindromic dinucleotides increases sister-chromatid exchanges (MTR 04514)
by N.O. Bianchi, M. Larramendy and M.S. Bianchi (Finland, Argentina) 151
Karyotypic abnormality of the X chromosome is rare in mutant HPRT$^-$ lymphocyte clones (MTR 04469)
by P. Muir, Y. Osborne, A.A. Morley and D.R. Turner (Australia) 157

0027-5107/88/$03.50 © 1988 Elsevier Science Publishers B.V. (Biomedical Division)

Measurement of in vivo HGPRT-deficient mutant cell frequency using a modified method for cloning human peripheral blood T-lymphocytes (MTR 04470)
by M. Hakoda, M. Akiyama, S. Kyoizumi, K. Kobuke, A.A. Awa and M. Yamakido (Japan) 161

Announcements 171

Special Issue

Activation of Promutagens by Plant Systems

edited by Michael J. Plewa and James M. Gentile

Preface (MTR 04563)
by M.J. Plewa and J.M. Gentile (U.S.A.) v

The use of cell-free systems in plant activation studies (MTR 04450)
by J.M. Gentile and M.J. Plewa (U.S.A.) 173
Mutagenic activation of xenobiotics by plant enzymes (MTR 04449)
by H. Sandermann Jr. (F.R.G.) 183
Promutagen activation by *Vicia faba*: An assay based on the induction of sister-chromatid exchanges in Chinese hamster ovary cells (MTR 04452)
by S. Takehisa, N. Kanaya and R. Rieger (Japan, G.D.R.) 195
The plant cell/microbe coincubation assay for the analysis of plant-activated promutagens (MTR 04453)
by M.J. Plewa, E.D. Wagner and J.M. Gentile (U.S.A.) 207
Mutagenic activity of promutagens in plants: indirect evidence of their activation (MTR 04454)
by J. Veleminský and T. Gichner (Czechoslovakia) 221
The Allium test — an alternative in environmental studies: the relative toxicity of metal ions (MTR 04482)
by G. Fiskesjö (Sweden) 243
Studies on the use of plant extracts in assessing the effects of plant metabolism on the mutagenicity and toxicity of pesticides (MTR 04485)
by I.A. Rasquinha, A.G. Wildeman and R.N. Nazar (Canada) 261
Metabolic activation of environmental chemicals by microsomal enzymes of higher plants (MTR 04495)
by K. Higashi (Japan) 273
Metabolism of mutagenic polycyclic aromatic hydrocarbons by photosynthetic algal species (MTR 04517)
by R. Schoeny, T. Cody, D. Warshawsky and M. Radike (U.S.A.) 289
The plant activation of *m*-phenylenediamine by Tradescantia clone 03 and clone 4430 cells in liquid suspension culture (MTR 04518)
by V.A. Anderson, M.J. Plewa and J.M. Gentile (U.S.A.) 303
Metabolic activation of the mutagen azide in biological systems (MTR 04523)
by W.M. Owais and A. Kleinhofs (Jordan, U.S.A.) 313
Assessment of the mutagenicity of fractions from *s*-triazine-treated *Zea mays* (MTR 04552)
by J.C. Means, M.J. Plewa and J.M. Gentile (U.S.A.) 325

[*end of special issue*]

Contents, Vol. 197 (1988) 337